

Appl. No.

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FORM PTO-1449 (Rev. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Atty. Docket No. <i>14624 CIP</i>	Serial No. <i>10/784,890</i>
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT <i>Nakhla et al.</i>	
				FILING DATE <i>7/24/04</i>	GROUP 1724

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	AB						YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>l.c.</i>	AC	Kunii, D. And Levenspiel, O., Fluidization Engineering, Butterworth-Heinemann, Stoneham, MA, USA (1991)
<i>l.c.</i>	AD	Weber, W. J., Hopkins, C. B. And Bloom, R., Physical-chemical treatment of wastewater. J. Wat. Pollut. Control Fed., 42, 83-88 (1970).
<i>l.c.</i>	AE	Jeris, J.S. and Owens, R. W., Pilot-scale high-rate biological denitrification, J. Wat. Pollut. Control Fed., 47, 2045-2057 (1975).
<i>l.c.</i>	AF	Hoyland, G. And Robinson, P.J., Aerobic treatment in OXITRON biological fluidized bed plant at Coleshill, Wat. Pollut. Control, 82, 479-493 (1983)
<i>l.c.</i>	AG	Cooper, P.F. and Williams, S. C., High-rate nitrification in a biological fluidized bed, Wat. Sci. Tech., 22, 431-442 (1990).
<i>l.c.</i>	AH	Semon, J., Sadick, T., Palumbo, D., Santoro, M and Keenan, P., Biological upflow fluidized bed denitrification reactor demonstration project - Stanford, CT, USA, Wat. Sci. Tech., 36, 139-146 (1997).
<i>l.c.</i>	AI	Zhu, J., Zheng, Y., Dimitre G. Karamanov and Amarjeet S.B., (Gas-) Liquid-solid circulating fluidized beds and their potential applications to bioreactor engineering, Can. J. Chem. Eng., 78, 82-94 (2000).
<i>l.c.</i>	AJ	Liang, W.G., Zhang, S.L., Zhu, J.X., Yu, Z. Q., Jin, Y. And Wang, Z.W., Flow characteristic of the liquid-solid circulating fluidized bed, Power Technol. 90, 95-102 (1997).
<i>l.c.</i>	AK	Zheng, Y., Zhu, J.Z., Bassi, A.S. and Margaritis, A., The axial hydrodynamic behaviour in a liquid-solid circulating fluidized bed. Can. J. Chem. Eng. 77, 284-290 (1999).

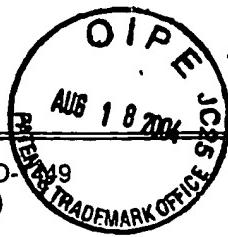
*J. Cintini**June 17, 2006*

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L.C.	AL	Zheng, Y., Zhu, J.-S., Marwaha, N.S. and Bassi, A.S., "Radical solids flow structure in a liquid-solids circulating fluidized bed", Chem. Eng. J., 88(2), 141-150, 2002.
L.C.	AM	Liang, W.-G., Wu, Q.-W., Uy, Z.-Q., Jin, Y. And Bi, X-T., Flow regimes of the three-phase circulating fluidized bed, American Institute Chem. Eng. J., 41, 267-271 (1995).
L.C.	AN	Liang, W.-G., Yu, Z.-Q., Jin, Y., Wang, Z.-W., and Wu, Q.-W., Phase holdups in a gas-liquid-solid circulating fluidized bed, Chem. Eng. J. & Biochem. Eng. J., 58, 259-264 (1995).
L.C.	AO	Liang, W.-G., Wu, Q.-W., Uy, Z.-Q., Jin, Y. And Wang, Z.-W., Hydrodynamics of a gas-liquid-solid three phase circulating fluidized bed, Can. J. Chem. Eng., 73, 656-661 (1995).
L.C.	AP	Robinson JA, Trullear AG, and Characklis WG, Cellular Reproduction and Extracellular Polymer Formation by Pseudomonas aeruginosa in Continuous Cultures, Biotechnol. & Bioeng., XXV, 1409, (1984).
L.C.	AQ	Chian ES, and DeWalle FB, Treatment of High Strength Acidic Wastewater with a Completely Mixed Anaerobic Reactor, Water Research, 11, 295-304, (1977).
L.C.	AR	Rogalla F., Payradeau M., Bacquet G, Bourbigot, MM and Sibony J, Nitrification and Phosphorus Precipitation with Biological Aerated Fillers, Water Environ. Res., 62(2), 169-176, (1990).
L.C.	AS	Switzenabum MS, and Jewel WJ, Anaerobic attached-film expanded bed reactor treatment, J. Water Pollution Control Fed. 52, 1953-1965.
L.C.	AT	Casey TG, Wentzel MC, Ekama GA, Lowenthal RE, and Marais GVR, "A Hypothesis for the Causes and Control of Anoxic-Aerobic (AA) Filament Bulking in Nutrient Removal Activated Sludge Systems", Water Sci. Tech., 290 (7), 203-212, 1994.
L.C.	AU	Musvoto EV, Casey TG, Ekama GA, Wantzzel MG and Marais GVR, The Effect of Incomplete Denitrification on Anoxic-Aerobic (Low F/m) Filament Bulking in Nutrient Removal Activated Sludge Systems, Water Sci. Tech., 29(7), 295-299, 1994.
L.C.	AV	Van Dijk, J.C. and Braakensiek, H. Phosphate removal by crystallization in a fluidized bed. Wat. Sci. Tech., 17, 133-142 (1985).
L.C.	AW	Battistoni, P., Pavan, P., Cecchi, F. And Mata-Alvarez, J. Phosphate removal in real anaerobic supernatants: Modelling and performance of a fluidized bed reactor. Wat. Sci. Tech., 38, 275-283 (1998).
L.C.	AX	Zweger B, Arnold E and Wildever PA, Nutrient Balances for Combined Nitrification and Denitrification in Biofilters, Water Sci. Tech., 4(4), 91-95, 2000.
EXAMINER	I. Cintis	DATE CONSIDERED June 17, 2006
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 602; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		



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FORM PTO-14624
(Rev. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Atty. Docket No. 14624CIP

10/784,890
Serial No.

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT NAKHLA, GEORGE

FILING DATE 24 Feb 2004

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

l.c.		Burton, Franklin L., Wastewater Engineering Treatment, Disposable and Reuse, Third Edition, Metcalf & Eddy, Inc., pgs 614-635

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DATE CONSIDERED

June 17, 2006

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Sheet 1 of 1

FORM PTO-1449
(Rev. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT & TRADEMARK OFFICE

Atty. Docket No. 14624CIP

10/781,890
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	AA												

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
		2	4	9	8	7	4	7	3/25/2004	Canada	—	—	YES
L.C.		2	4	9	8	7	4	7	3/25/2004	Canada	—	—	—
L.C.		2	2	0	5	0	0	3	5/3/1996	Canada	—	—	—

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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DATE CONSIDERED

June 17, 2006

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